



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

OCTOBER 15, 2004

PTAS



102729688A

BORGWARNER, INC.
GERALD E. MCGLYNN, III
POWERTRAIN TECHNICAL CENTER
3800 AUTOMATION AVENUE, SUITE 100
AUBURN HILLS, MI 48326

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/22/2004

REEL/FRAME: 015243/0707
NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

KOENIG, MELISSA

DOC DATE: 04/02/2004

ASSIGNOR:

MARTIN, R. KEITH

DOC DATE: 03/31/2004

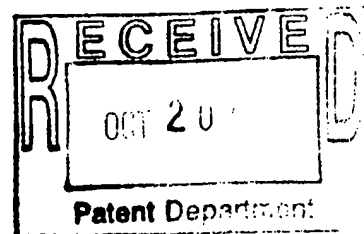
ASSIGNOR:

KREMER, JOHN M.

DOC DATE: 03/31/2004

ASSIGNEE:

BORGWARNER, INC.
3800 AUTOMATION AVENUE
AUBURN HILLS, MICHIGAN 48326



015243/0707 PAGE 2

SERIAL NUMBER: 10627419

FILING DATE: 07/24/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: CONTROL STRATEGY FOR LOAD SHARING BETWEEN A FRICTION CLUTCH AND ONE-
WAY CLUTCH TO EFFECT LOW AND REVERSE GEAR RATIOS IN A TRANSMISSION

MARY BENTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

04-26-2004



102729688
RECORDATION
PATENTS ONLY

4.22.04

TO: The Director of the United States Patent and Trademark Office: Please record the attached original document(s) or copy(ies).

Submission Type

- ☒ New
- ☐ Resubmission (Non-Recordation)
Document ID#
- ☐ Correction of PTO Error
Reel # Frame #
- ☐ Corrective Document
Reel # Frame #

Conveyance Type

- ☒ Assignment ☐ Security Agreement
- ☐ License ☐ Change of Name
- ☐ Merger ☐ Other
- U.S. Government
(For Use ONLY by U.S. Government Agencies)
- ☐ Departmental File ☐ Secret File

Conveying Party(ies)

☒ Mark if additional names of conveying parties attached

Name (line 1)

Execution Date
Month Day Year

Name (line 2)

Second Party

Name (line 1)

Execution Date
Month Day Year

Name (line 2)

Receiving Party

☐ Mark if additional names of receiving parties attached

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

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Mail documents to be recorded with required cover sheet(s) information to:
Mail Stop Assignment Recordation Services, Director of the United States Patent and Trademark Office,
P.O. Box 1450, Alexandria, VA 22313-1450

04/23/04
DETACHE 00000025 10627419

Correspondent Name and Address

Area Code and Telephone Number

Name BorgWarner, Inc.

Address (line 1) Powertrain Technical Center

Address (line 2) 3800 Automation Avenue

Address (line 3) Suite 100

Address (line 4) Auburn Hills, Michigan 48326

Pages

Enter the total number of pages of the attached conveyance document including any attachments.

6

Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

10/627,419

If this document is being filed together with a new Patent Application, enter the date the patent application was

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

Number of Properties

Enter the total number of properties involved.

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

Method of Payment:

Enclosed ☒

Deposit Account ☐

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the

Deposit Account Number:

02-2712

Authorization to charge additional fees:

Yes ☒

No ☐

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Gerald E. McGlynn, III
Name of Person Signing

Signature

April 19, 2004
Date

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

U.S. Department of Commerce
Patent and Trademark Office
PATENT

Conveying Party(ies)

Enter additional Conveying Parties

☐ Mark if additional names of conveying parties attached

Name (line 1) John M. Kremer

Execution Date
Month Day Year
03/31/2004

Name (line 2)

Name (line 1)

Execution Date
Month Day Year

Name (line 2)

Name (line 1)

Execution Date
Month Day Year

Name (line 2)

Receiving Party

☐ Mark if additional names of receiving parties attached

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

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Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

ASSIGNMENT

WHEREAS, we, Melissa Koenig of Howell in the County of Livingston and the State of Michigan, R. Keith Martin of Imlay City in the County of Lapeer and the State of Michigan, and John M. Kremer of Sterling Heights in the County of Macomb and the State of Michigan, have jointly invented certain new and useful improvements in:

***CONTROL STRATEGY FOR LOAD SHARING BETWEEN A
FRICTION CLUTCH AND ONE-WAY CLUTCH TO EFFECT
LOW AND REVERSE GEAR RATIOS IN A TRANSMISSION***

identified as BorgWarner, Inc. Case No. DKT01088A and described in a patent application executed by us on the 2nd day of April 2004, the 31st day of March 2004, and the 31st day of March 2004, respectively, (and we hereby authorized our attorney, A. Michael Tucker, to here insert the filing date and serial number of said application, as soon as it is known, Filed July 24, 2003, Serial No. 10/627,419) preparatory to obtaining Letters Patent of the United States therefor; and

WHEREAS, BorgWarner, Inc., a corporation duly organized and existing under and by virtue of the laws of the State of Delaware, and having a place of business at 3800 Automation Avenue, Auburn Hills, Michigan 48326-1786, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention or inventions and in, to and under Letters Patent therefor in the United States and all other countries.

NOW, THEREFORE, BE IT KNOWN THAT, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do hereby sell, assign, transfer and set over to and unto said ASSIGNEE, its successors and assigns, the entire right, title, and interest in and to said invention or inventions and in, to and under the above identified application and all other applications for Letters Patent of the United States and for patents, utility models and other industrial property in all other countries for the above entitled invention or inventions, including any and all priority rights or dates pursuant to the provisions of any International Convention for the protection of industrial property; and in, to and under all Letters Patent that may be issued for said invention or inventions in the United States and all other countries, and in, to and under all divisions, reissues, continuations, and extensions thereof, and covenant that we have the full right so to do; and we hereby authorize and request the

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 2ND day of APRIL 2004.

L.S.) Melissa Koenig
Melissa Koenig

State of MICHIGAN)
)ss.
County of MACOMB)
 ACTING IN OAKLAND

I, the undersigned, a Notary Public in and for the State and County aforesaid, do hereby certify that Melissa Koenig, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the same instrument as his free and voluntary act, for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunder set my hand and notarial seal this 20th day of April 2004.

Debra L. Kochan
Notary Public
My Commission Expires: 06-26-2026

res: MEDINA E. NUQUEZ
NOTARY PUBLIC MACOMB CO., MI
MY COMMISSION EXPIRES Nov 22, 2023

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 31ST day of MARCH 2004.

(L.S.) R. Keith Martin
R. Keith Martin

State of MICHIGAN)
)ss.

County of MACOMB)
ACTING IN OAKLAND

I, the undersigned, a Notary Public in and for the State and County aforesaid, do hereby certify that R. Keith Martin, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the same instrument as his free and voluntary act, for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunder set my hand and notarial seal this 31st day of MARCH 2004.

Debra L. Kahan
Notary Public
My Commission Expires:

NOTARY PUBLIC MACOMB CO., MI
MY COMMISSION EXPIRES Nov 28, 2004

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 31 day of March 2004.

(L.S.) John M. Kremer
John M. Kremer

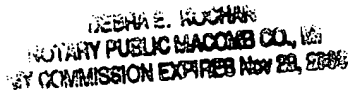
State of MICHIGAN)
)ss.

County of MACOMB)
ACTING IN OAKLAND

I, the undersigned, a Notary Public in and for the State and County aforesaid, do hereby certify that John M. Kremer, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the same instrument as his free and voluntary act, for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunder set my hand and notarial seal this 21st day of MARCH 2004.

Nelra E. Kochan
Notary Public
My Commission Expires:





UNITED STATES
PATENT AND
TRADEMARK OFFICE



AUGUST 13, 2003

PTAS

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

BLISS MCGLYNN, P.C.
GERALD E. MCGLYNN, III
2075 WEST BIG BEAVER ROAD
SUITE 600
TROY, MI 48084



102399333A

UNITED STATES PATENT AND TRADEMARK OFFICE
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RECORDATION DATE: 03/18/2003

REEL/FRAME: 013866/0700
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

STEFINA, BRIAN K.

DOC DATE: 01/30/2003

ASSIGNEE:

BORGWARNER, INC.
3800 AUTOMATION AVENUE
AUBURN HILLS, MICHIGAN 48326

SERIAL NUMBER: 10310229
PATENT NUMBER:

FILING DATE: 12/05/2002
ISSUE DATE:

SHARON BROOKS, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

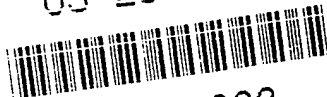
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AUG 19 2003

BLISS MCGLYNN, P.C.



03-25-2003



102399333

RECORDATION FORM COVER SHEET
PATENTS ONLY

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

3-18-03

☒ New

☐ Resubmission (Non-Recordation)

Document ID#

☐ Correction of PTO Error

Reel #

Frame #

☐ Corrective Document

Reel #

Frame #

Conveyance Type

☒ Assignment

☐ Security Agreement

☐ License

☐ Change of Name

☐ Merger

☐ Other

U.S. Government

(For Use ONLY by U.S. Government Agencies)

☐ Departmental File

☐ Secret File

Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Name (line 1) Brian K. Stefina

Execution Date
Month Day Year
01/30/2003

Name (line 2)

Second Party

Name (line 1)

Execution Date
Month Day Year

Name (line 2)

Receiving Party

☐ Mark if additional names of receiving parties attached

Name (line 1) BorgWarner, Inc.

Name (line 2)

Address (line 1) 3800 Automation Avenue

Address (line 2)

Address (line 3) Auburn Hills

City

Michigan

State/Country

48326

Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name Gerald E. McGlynn, III

Address (line 1) Bliss McGlynn, P.C.

Address (line 2) 2075 West Big Beaver Road

Address (line 3) Suite 600

Address (line 4) Troy, Michigan 48084

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03/24/2003 ECOOPER 00000122 10310229

01 PC:8021

40.00/OP

Correspondent Name and Address

Area Code and Telephone Number

248.649.6090

Name Gerald E. McGlynn, III

Address (line 1) Bliss McGlynn, P.C.

Address (line 2) 2075 West Big Beaver Road

Address (line 3) Suite 600

Address (line 4) Troy, Michigan 48084

Pages

Enter the total number of pages of the attached conveyance document including any attachments.

4

Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

10/310,229

If this document is being filed together with a new Patent Application, enter the date the patent application was

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT PCT PCT
PCT PCT PCT

Number of Properties

Enter the total number of properties involved.

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41):

\$ 40.00

Method of Payment:

Enclosed ☒

Deposit Account ☐

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the

Deposit Account Number:

02-2712

Authorization to charge additional fees:

Yes



No



Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Gerald E. McGlynn, III

Name of Person Signing

Signature

March 13, 2003

Date

ASSIGNMENT

WHEREAS, I, Brian K. Stefina of Waterford in the County of Oakland and the State of Michigan, have invented certain new and useful improvements in

CLUTCH ASSEMBLY HAVING ANTI-SKEW ENGAGEMENT MECHANISM

identified as BorgWarner, Inc. Case No. DKT02107 and described in a patent application executed by me on the 30th day of January 2003, (and I hereby authorized my attorney, A. Michael Tucker, to here insert the filing date and serial number of said application, as soon as it is known, Filed December 5, 2002, Serial No. 10/310,229) preparatory to obtaining Letters Patent of the United States therefor; and

WHEREAS, BorgWarner Inc., a corporation duly organized and existing under and by virtue of the laws of the State of Delaware, and having a place of business at 3800 Automation Avenue, Auburn Hills, Michigan 48326, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention or inventions and in, to and under Letters Patent therefor in the United States and all other countries.

NOW, THEREFORE, BE IT KNOWN THAT, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I have sold, assigned, transferred and set over and by these presents do hereby sell, assign, transfer and set over to and unto said ASSIGNEE, its successors and assigns, the entire right, title, and interest in and to said invention or inventions and in, to and under the above identified application and all other applications for Letters Patent of the United States and for patents, utility models and other industrial property in all other countries for the above entitled invention or inventions, including any and all priority rights or dates pursuant to the provisions of any International Convention for the protection of industrial property; and in, to and under all Letters Patent that may be issued for said invention or inventions in the United States and all other countries, and in, to and under all divisions, reissues, continuations, and extensions thereof, and covenant that I have the full right so to do; and I hereby authorize and request the Commissioner of Patents to issue all United States Letters Patent on the invention or inventions included herein to said ASSIGNEE, as assignee of the entire interest, and I authorize said ASSIGNEE to file applications for patents, utility models and other industrial property based on said

I further agree that I will communicate to said ASSIGNEE or its representatives or agents all facts and information known or available to me respecting said invention or inventions, including evidence for interference purposes or for other legal proceedings, whenever requested; testify in any interference or other legal proceedings; execute and deliver, on request, all lawful papers including original, divisional, continuing and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, depositions, etc., and generally do everything possible to aid said ASSIGNEE, its successors and assigns, but at the expense of ASSIGNEE, in obtaining and enforcing proper protection for said invention or inventions, in the United States and all other countries.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 30 day of JAN 2003.

(L.S.) Brian K. Stefina

State of MICHIGAN)
)ss.

County of MACOMB)
ACTING IN OAKLAND

I, the undersigned, a Notary Public in and for the State and County aforesaid, do hereby certify that Brian K. Stefina, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the same instrument as his free and voluntary act, for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunder set my hand and notarial seal this 30th day of January 2003.

Debra E. Kochan
Notary Public
My Commission Expires: DEBRA E. KOCHAN

DEBRA E. KOCHAN
NOTARY PUBLIC MACOMB CO., MI
MY COMMISSION EXPIRES Nov 29, 2005



Facsimile Transmission

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 Voice Phone: 571-272-3350

To: Name: BORGWARNER INC.
 Company: 3850 HAMLIN ROAD
 Fax Number: 12486496299
 Voice Phone:

Fax Notes:

Pg#	Description
1	Cover Page
2	296.TXT
4	Document 1, Batch 630463

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Number of pages including this cover sheet: 05

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**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 30, 2006

PTAS

500089261A***500089261A***BORGWARNER INC.
3850 HAMLIN ROAD
AUBURN HILLS, MI 48326UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 03/30/2006

REEL/FRAME: 017387/0218

NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 0267.00047

ASSIGNOR:

BLAIR, CHRISTOPHER E.

DOC DATE: 03/27/2006

ASSIGNOR:

KREMER, JOHN M.

DOC DATE: 03/27/2006

ASSIGNOR:

MARTIN, R. KEITH

DOC DATE: 03/27/2006

ASSIGNOR:

KOENIG, MELISSA

DOC DATE: 03/27/2006

ASSIGNOR:

STEFINA, BRIAN K.

DOC DATE: 03/27/2006

017387/0218 PAGE 2

ASSIGNEE:

BORGWARNER INC.
3850 HAMLIN ROAD
AUBURN HILLS, MICHIGAN 48326

SERIAL NUMBER: 10627845.

FILING DATE: 04/30/2004

PATENT NUMBER:

ISSUE DATE:

TITLE: BI-DIRECTIONAL FOUR-MODE CLUTCH FOR PROVIDING LOW AND REVERSE GEAR
RATIOS IN A TRANSMISSION

JOANN STEWART, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

JA

d

G

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

03/30/2006
500089261

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Christopher E. Blair</td><td>03/27/2006</td></tr><tr><td>John M. Kremer</td><td>03/27/2006</td></tr><tr><td>R. Keith Martin</td><td>03/27/2006</td></tr><tr><td>Melissa Koenig</td><td>03/27/2006</td></tr><tr><td>Brian K. Stefina</td><td>03/27/2006</td></tr></tbody></table>	Name	Execution Date	Christopher E. Blair	03/27/2006	John M. Kremer	03/27/2006	R. Keith Martin	03/27/2006	Melissa Koenig	03/27/2006	Brian K. Stefina	03/27/2006	
Name	Execution Date												
Christopher E. Blair	03/27/2006												
John M. Kremer	03/27/2006												
R. Keith Martin	03/27/2006												
Melissa Koenig	03/27/2006												
Brian K. Stefina	03/27/2006												
RECEIVING PARTY DATA													
Name:	BorgWarner Inc.												
Street Address:	3850 Hamlin Road												
City:	Auburn Hills												
State/Country:	MICHIGAN												
Postal Code:	48326												
PROPERTY NUMBERS Total: 1													
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>10627845</td></tr></tbody></table>	Property Type	Number	Application Number:	10627845									
Property Type	Number												
Application Number:	10627845												
CORRESPONDENCE DATA													
Fax Number:	(248)649-6299												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	2486496090												
Email:	mschamanek@ipdirection.com												
Correspondent Name:	BorgWarner Inc.												
Address Line 1:	3850 Hamlin Road												
Address Line 4:	Auburn Hills, MICHIGAN 48326												
ATTORNEY DOCKET NUMBER:	0267.00047												
NAME OF SUBMITTER:	Gerald E. McGlynn, III												

CH \$40.00 10627845

Total Attachments: 3

source=Assignment#page1.tif

source=Assignment#page2.tif

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Your assignment has been received by the USPTO.
The coversheet of the assignment is displayed below:

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Christopher E. Blair</td><td>03/27/2006</td></tr><tr><td>John M. Kremer</td><td>03/27/2006</td></tr><tr><td>R. Keith Martin</td><td>03/27/2006</td></tr><tr><td>Melissa Koenig</td><td>03/27/2006</td></tr><tr><td>Brian K. Stefina</td><td>03/27/2006</td></tr></tbody></table>	Name	Execution Date	Christopher E. Blair	03/27/2006	John M. Kremer	03/27/2006	R. Keith Martin	03/27/2006	Melissa Koenig	03/27/2006	Brian K. Stefina	03/27/2006	
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RECEIVING PARTY DATA													
<table border="1"><tr><td>Name:</td><td>Borg Warner Inc.</td></tr><tr><td>Street Address:</td><td>3850 Hamlin Road</td></tr><tr><td>City:</td><td>Auburn Hills</td></tr><tr><td>State/Country:</td><td>MICHIGAN</td></tr><tr><td>Postal Code:</td><td>48326</td></tr></table>	Name:	Borg Warner Inc.	Street Address:	3850 Hamlin Road	City:	Auburn Hills	State/Country:	MICHIGAN	Postal Code:	48326			
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PROPERTY NUMBERS Total: 1													
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>10627845</td></tr></tbody></table>	Property Type	Number	Application Number:	10627845									
Property Type	Number												
Application Number:	10627845												
CORRESPONDENCE DATA													
Fax Number:	(248)649-6299												

<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	2486496090
Email:	mschamanek@ipdirection.com
Correspondent Name:	BorgWarner Inc.
Address Line 1:	3850 Hamlin Road
Address Line 4:	Auburn Hills, MICHIGAN 48326
ATTORNEY DOCKET NUMBER:	0267.00047
NAME OF SUBMITTER:	Gerald E. McGlynn, III
Signature:	/Gerald E. McGlynn, III/
Date:	03/30/2006
Total Attachments: 3 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif	
RECEIPT INFORMATION EPAS ID: PAT93868 Receipt Date: 03/30/2006 Fee Amount: \$40	

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ASSIGNMENT

WHEREAS, we, Christopher E. Blair of Waterford in the County of Oakland and the State of Michigan, John M. Kremer of Sterling Heights in the County of Macomb and the State of Michigan, R. Keith Martin of Imlay City in the County of Lapeer and the State of Michigan, Melissa Koenig of Howell in the County of Livingston and the State of Michigan, and Brian K. Stefina of Waterford in the County of Oakland and the State of Michigan, have jointly invented certain new and useful improvements in

BI-DIRECTIONAL FOUR-MODE CLUTCH FOR PROVIDING LOW AND REVERSE GEAR RATIOS IN A TRANSMISSION

identified as BorgWarner Inc. Case No. DKT01085C and described in a patent application executed by us on the 27th day of March 2006, the 27th day of March 2006, the 27th day of March 2006, the 27th day of March 2006, and the 27th day of March 2006, respectively, (and we hereby authorized our attorney, A. Michael Tucker, to here insert the filing date and serial number of said application, as soon as it is known, Filed April 30, 2004, Serial No. 10/627,425) preparatory to obtaining Letters Patent of the United States therefor; and

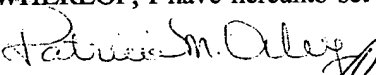
WHEREAS, Borg Warner Inc., a corporation duly organized and existing under and by virtue of the laws of the State of Delaware, and having a place of business at 3850 Hamlin Road, Auburn Hills, Michigan 48326, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention or inventions and in, to and under Letters Patent therefor in the United States and all other countries.


NOW, THEREFORE, BE IT KNOWN THAT, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do hereby sell, assign, transfer and set over to and unto said ASSIGNEE, its successors and assigns, the entire right, title, and interest in and to said invention or inventions and in, to and under the above identified application and all other applications for Letters Patent of the United States and for patents, utility models and other industrial property in all other countries for the above entitled invention or inventions, including any and all priority rights or dates pursuant to the provisions of any International Convention for the protection of industrial property; and in, to and under all Letters Patent that may be issued for said invention or inventions in the United States and all other countries, and in, to and under all divisions,

reissues, continuations, and extensions thereof, and covenant that we have the full right so to do; and we hereby authorize and request the Commissioner of Patents to issue all United States Letters Patent on the invention or inventions included herein to said ASSIGNEE, as assignee of the entire interest, and we authorize said ASSIGNEE to file applications for patents, utility models and other industrial property based on said invention or inventions in ASSIGNEE's name and to claim the above identified priority rights or dates.

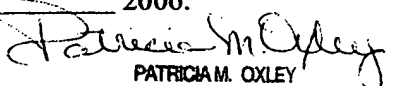
We further agree that we will communicate to said ASSIGNEE or its representatives or agents all facts and information known or available to us respecting said invention or inventions, including evidence for interference purposes or for other legal proceedings, whenever requested; testify in any interference or other legal proceedings; execute and delivery, on request, all lawful papers including original, divisional, continuing and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, depositions, etc., and generally do everything possible to aid said ASSIGNEE, its successors and assigns, but at the expense of ASSIGNEE, in obtaining and enforcing proper protection for said invention or inventions, in the United States and all other countries.

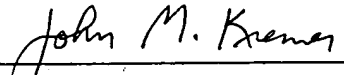
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 27th day of March 2006.


PATRICIA M. OXLEY
NOTARY PUBLIC, STATE OF MI (L.S.)
COUNTY OF GENESEE
MY COMMISSION EXPIRES Mar 25, 2011
ACTING IN COUNTY OF Oakland

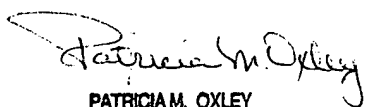

Christopher E. Blair

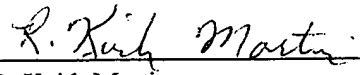
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PATRICIA M. OXLEY
NOTARY PUBLIC, STATE OF MI (L.S.)
COUNTY OF GENESEE
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ACTING IN COUNTY OF Oakland



John M. Kremer

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 27th day of March 2006.

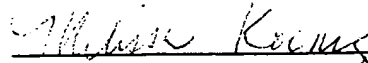

PATRICIA M. OXLEY
NOTARY PUBLIC, STATE OF MI (L.S.)
COUNTY OF GENESEE
MY COMMISSION EXPIRES Mar 25, 2011
ACTING IN COUNTY OF


R. Keith Martin

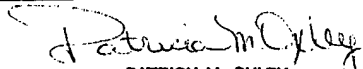
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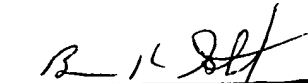
(L.S.)


Melissa Koenig

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 27th day of March 2006.


PATRICIA M. OXLEY
NOTARY PUBLIC, STATE OF MI
COUNTY OF GENESEE
MY COMMISSION EXPIRES Mar 25, 2011
ACTING IN COUNTY OF Oakland

(L.S.)


Brian K. Stefina